

FIG 1

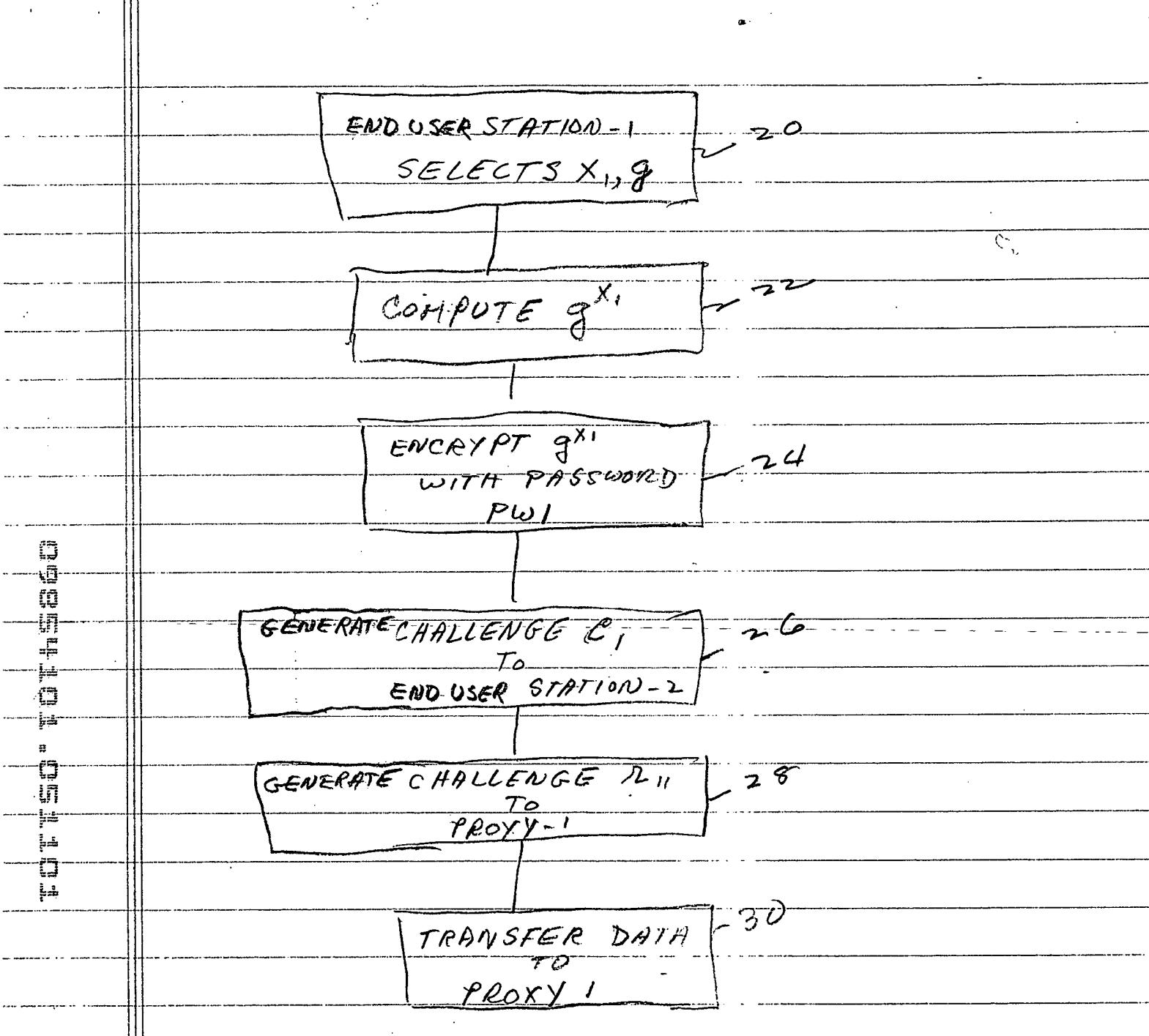


FIG-2

00000000000000000000000000000000

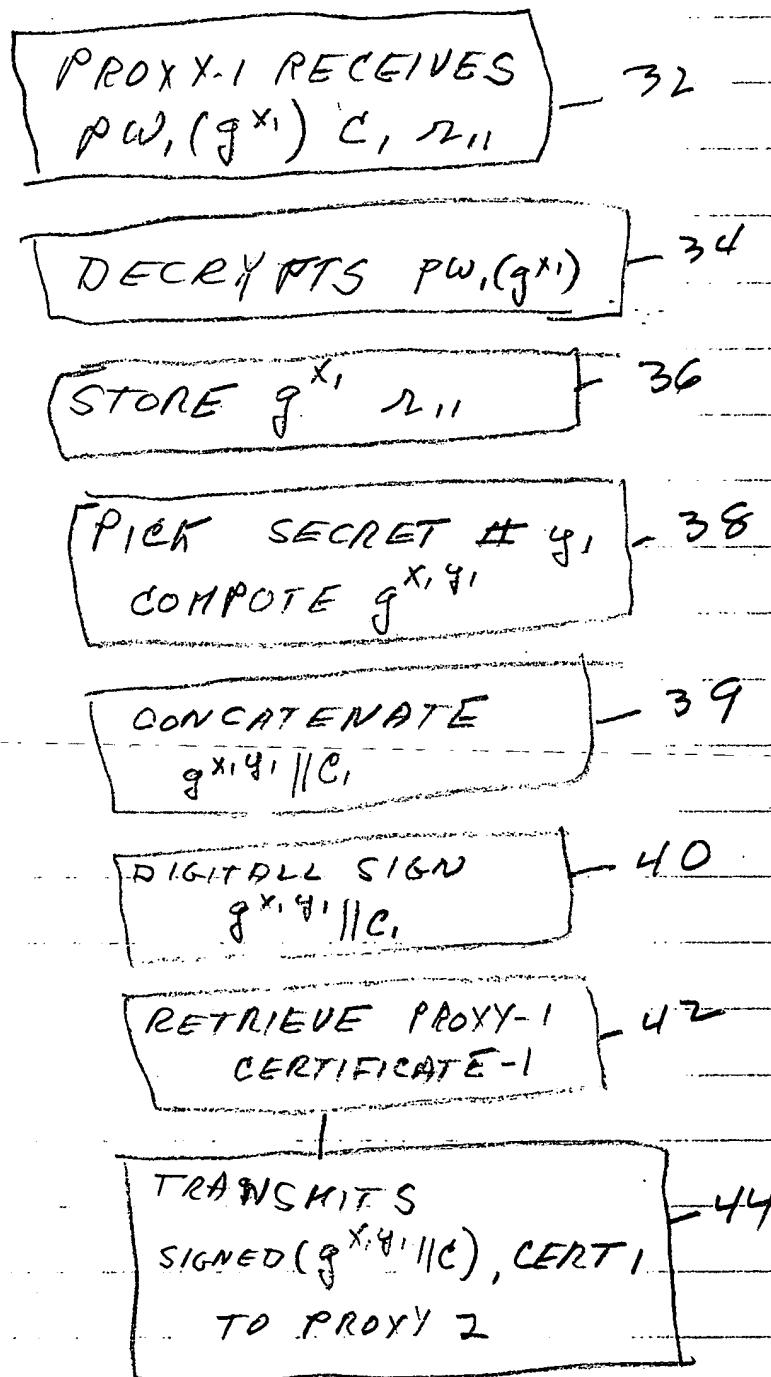


FIG 3

PROXY 2 RECEIVES  
SIGNED  $(g^{x,y}, h^c)$   
CERT-1

46

VERIFY SIGN  
BELONGS TO PROXY-1

48

50

NO

ERROR  
MESSAGE TO  
PROXY-1

YES

PICK SECRET #  $y_2$   
 $u_2$  & COMPUTE  
 $g^{x,y,y_2}, g^{u_2}$

52

ENCRYPT WITH PW 2  
 $(g^{x,y,y_2}) + g^{u_2}$

54

GENERATES CHALLENGE  $u_2$   
TO END USER STATION 2

56

SENDS PW 2 ( $g^{x,y,y_2},$   
 $g^{u_2}, u_2, g$ , TO  
END USER STATION 2)

58

FIG 4

END USER STATION 2  
DECRYPTS  $g^{x_1 y_1 z_2}$ ,  
 $g^{w_2}$  USING PW 2

60

END USER STATION 2  
PICKS  $x_2$

62

COMPUTES SESSION  
KEY  $A = g^{x_1 y_1 z_2 x_2}$   
 $+ k_2 = g^{w_2 x_2}$

64

CHALLENGE  $A_2$ , TO  
PROXY 2 +  $C_2$ , CHALLENGE  
TO END USER STATION 1

66

68

SENGS  
 $A_2 (n_2 || z_1)$   
TO PROXY 2

70

SENGS  
 $k(C_2 || C_1)$   
TO PROXY 2

72

COMPUTES  
 $g^{x_2}$   
+  
SENGS TO PROXY 2

FIG 5

PROXY 2 COMPUTE - 24

$$K_2 = g^{u_2 x_2}$$

DECRYPTS  
 $K_2 (r_{22} || r_{21})$

76

$r_{222}$   
PRESENT  
2

76

NO -

80  
ERROR  
MESSAGES

COMPUTE  
 $g^{x_2 y_2}$

82

TRANSFER SIGN( $g^{x_2 y_2}$ ) AND  
TRANSFER CERTIFICATE 2

84

SEND SIGNED  
MATERIAL  
 $K(C_2 || C_1)S$  PROXY 1

86

FIG-6

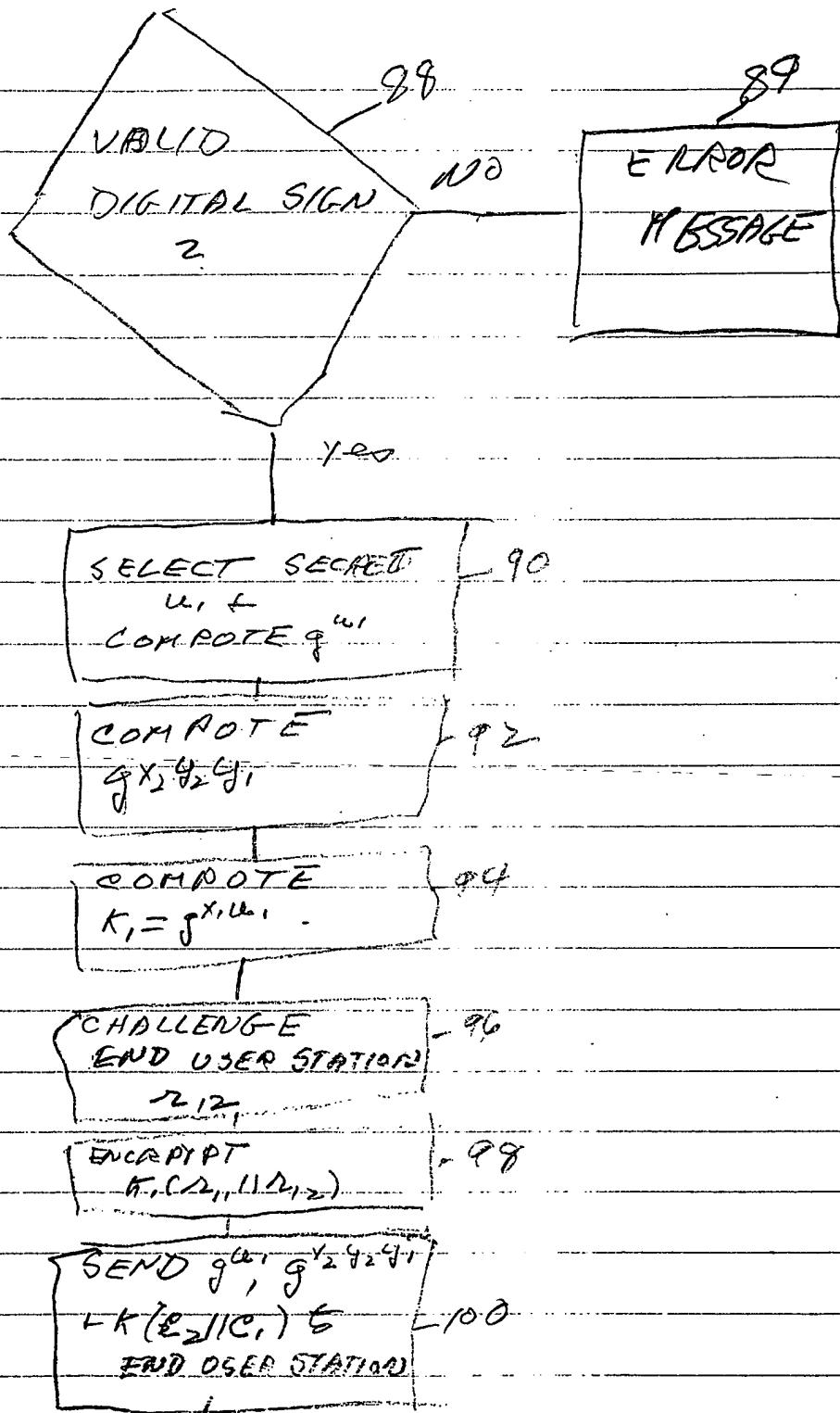


FIG 7

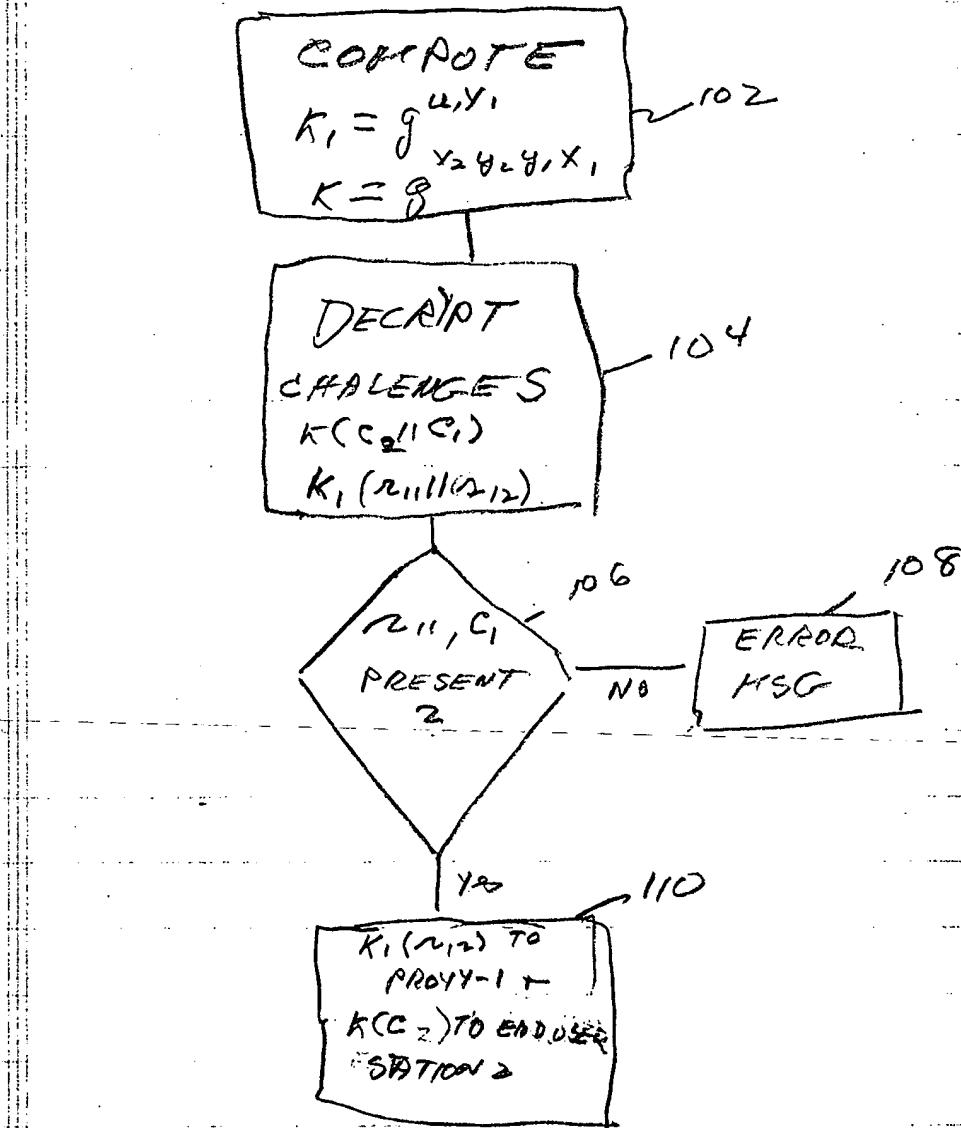


FIG 8

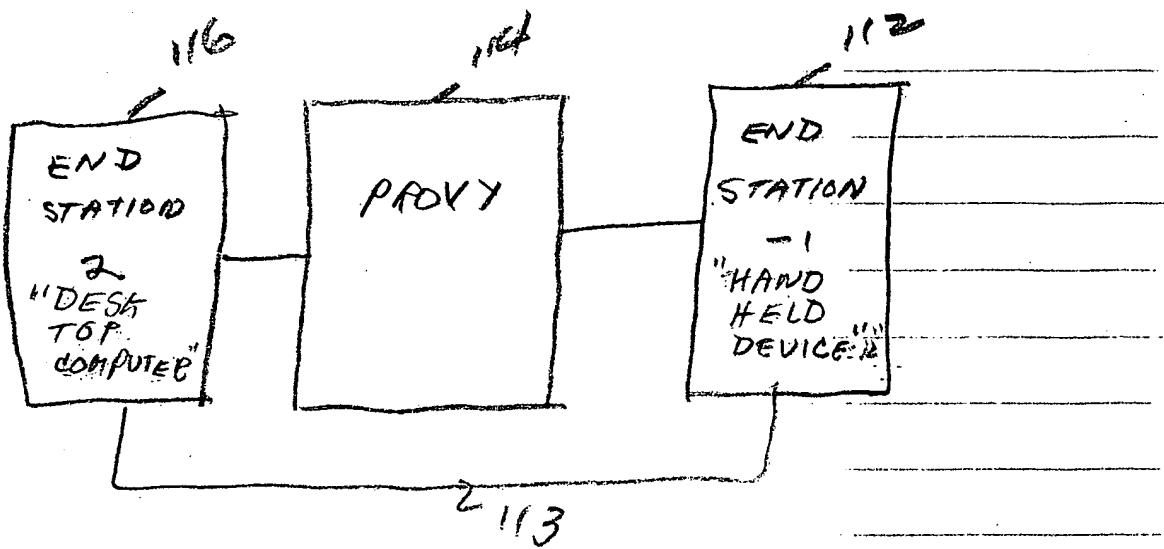


FIG 9

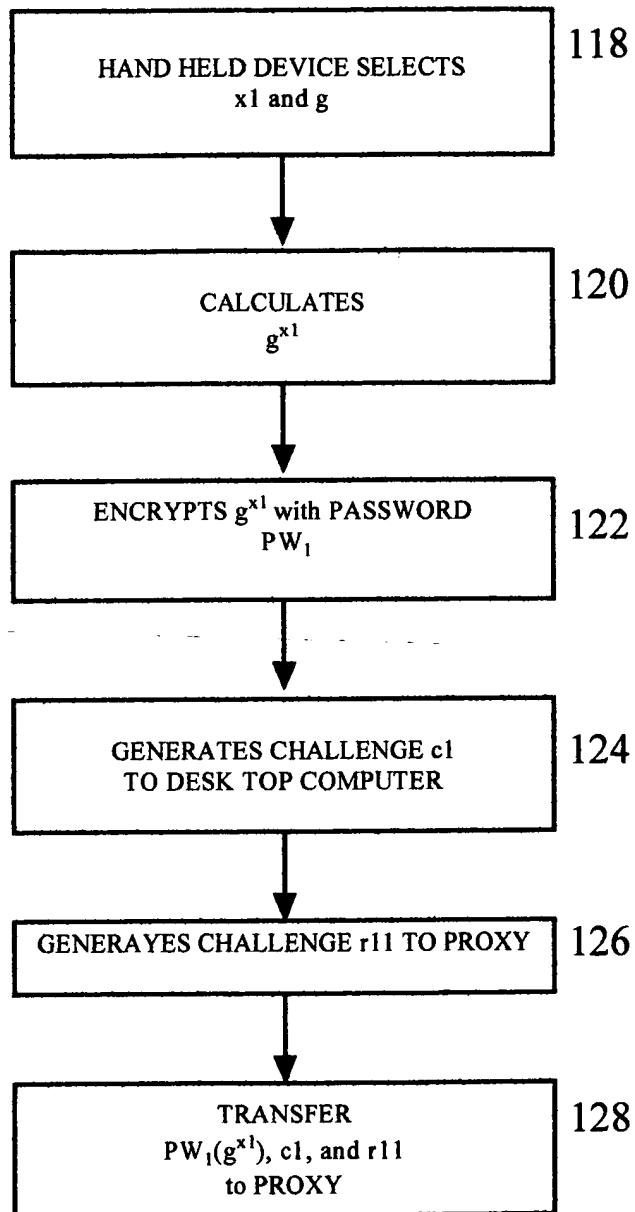


FIG 10

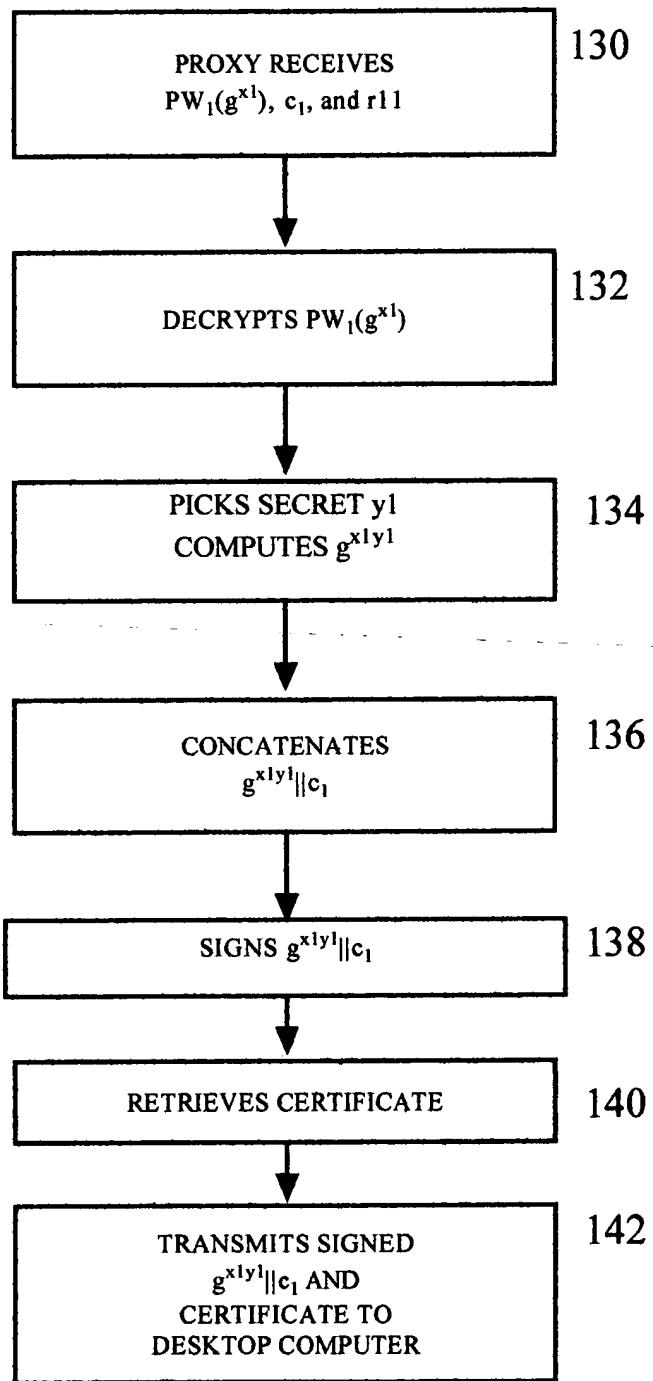


FIG 11

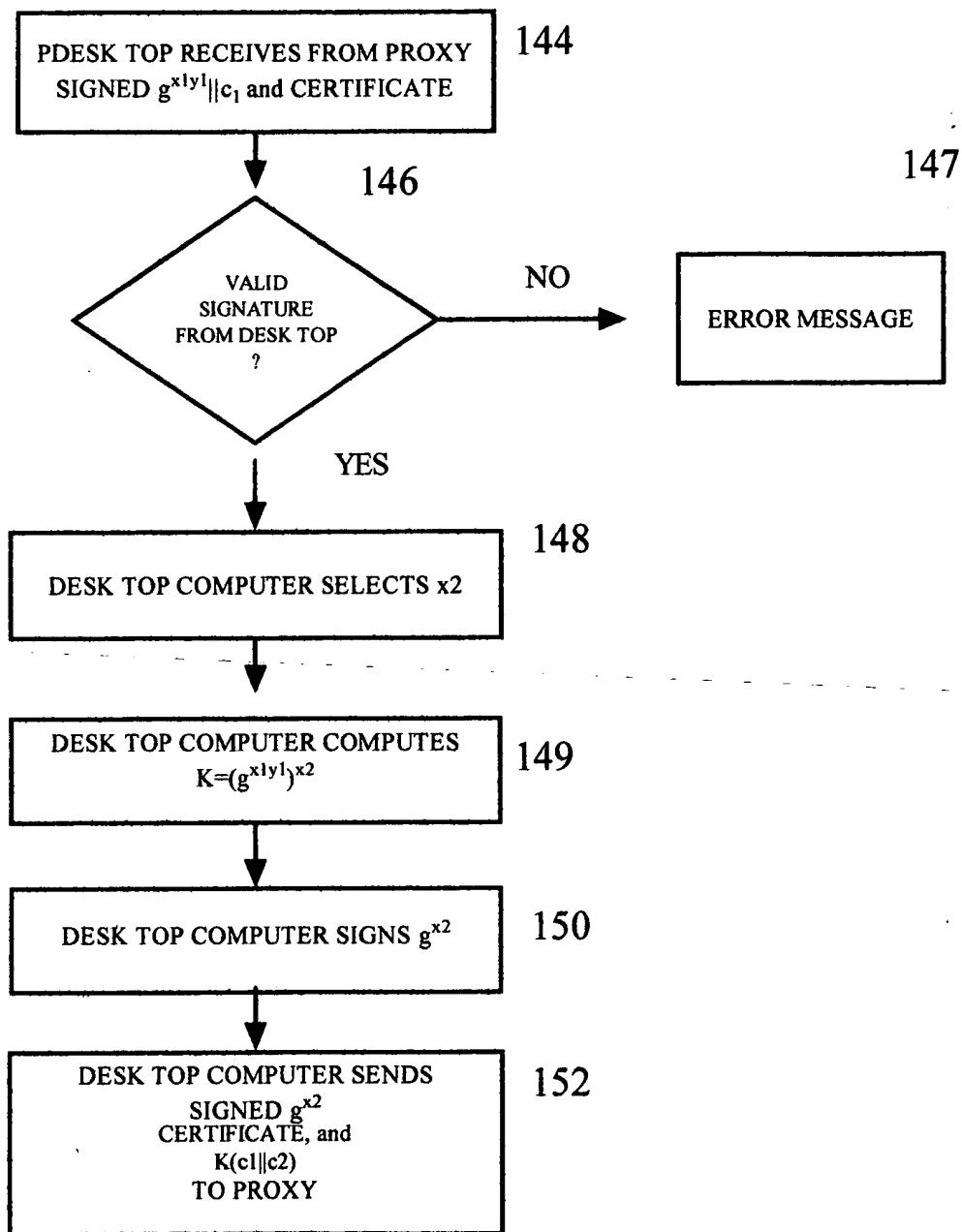


FIG 12

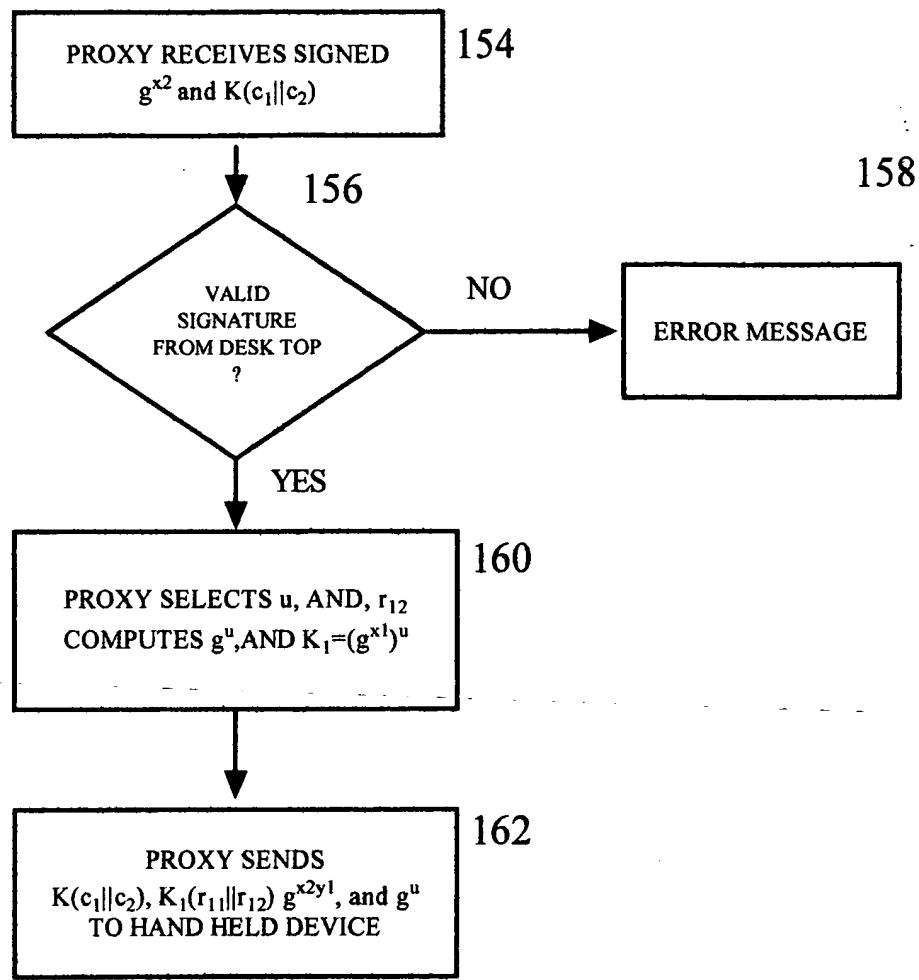


FIG 13

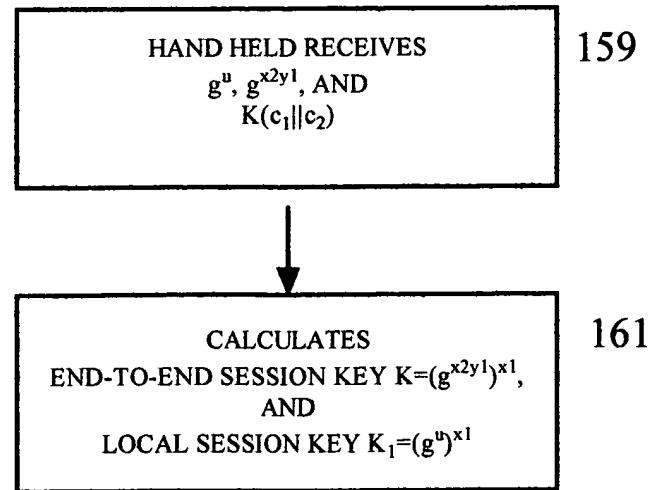


FIG 14

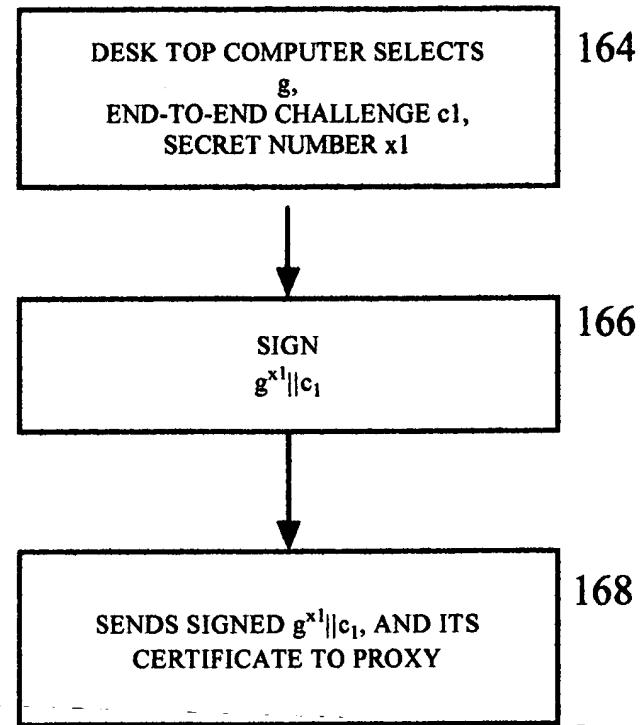


FIG 15

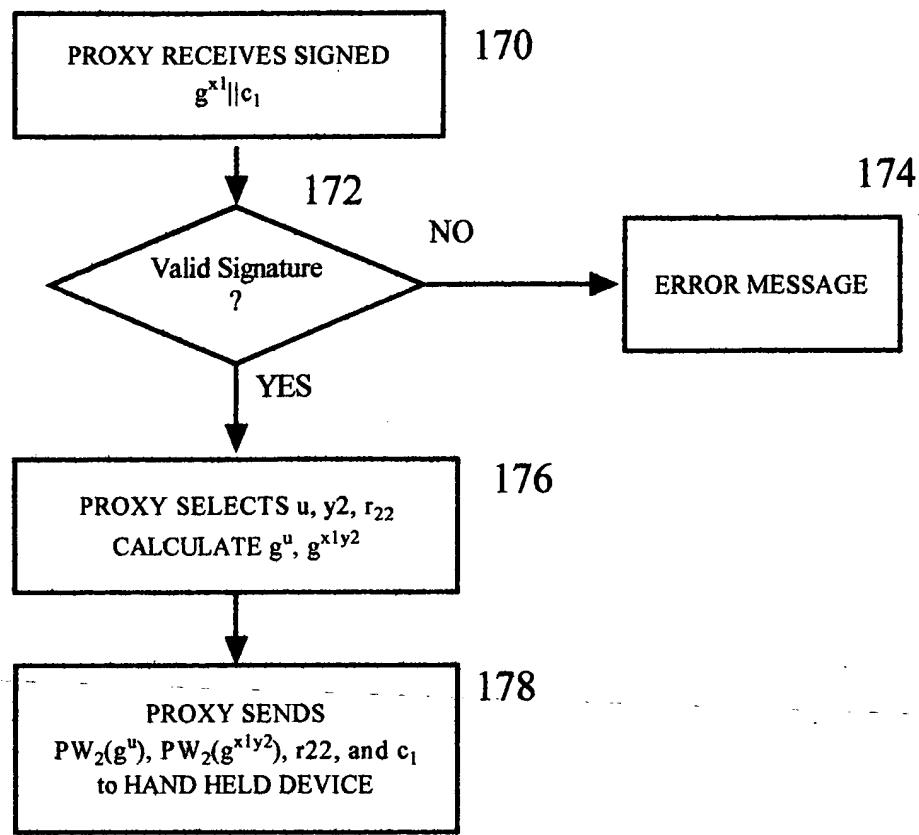


FIG 16

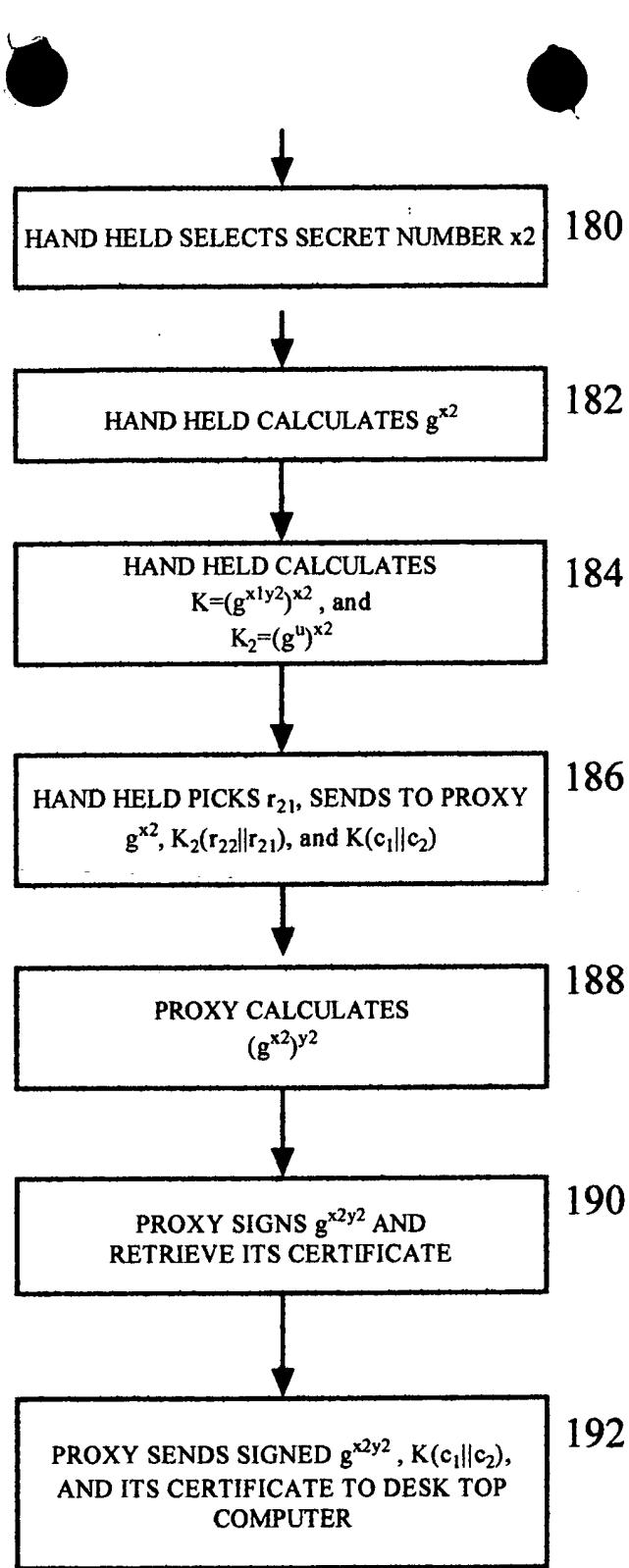


FIG 17

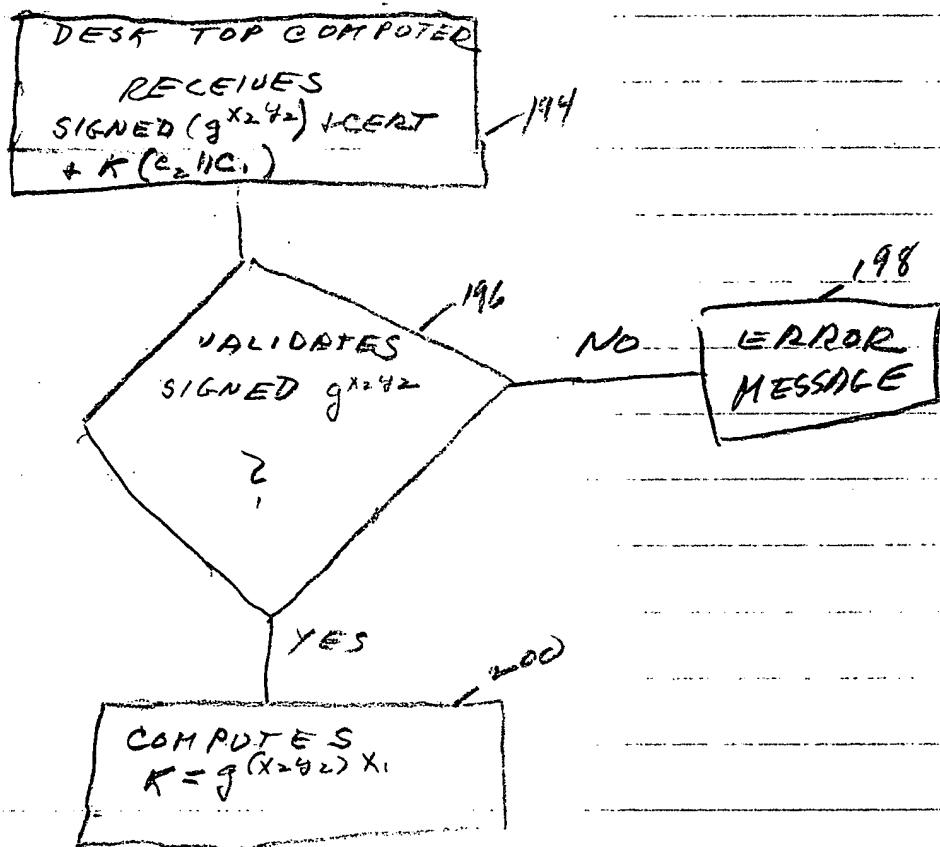


FIG. 18